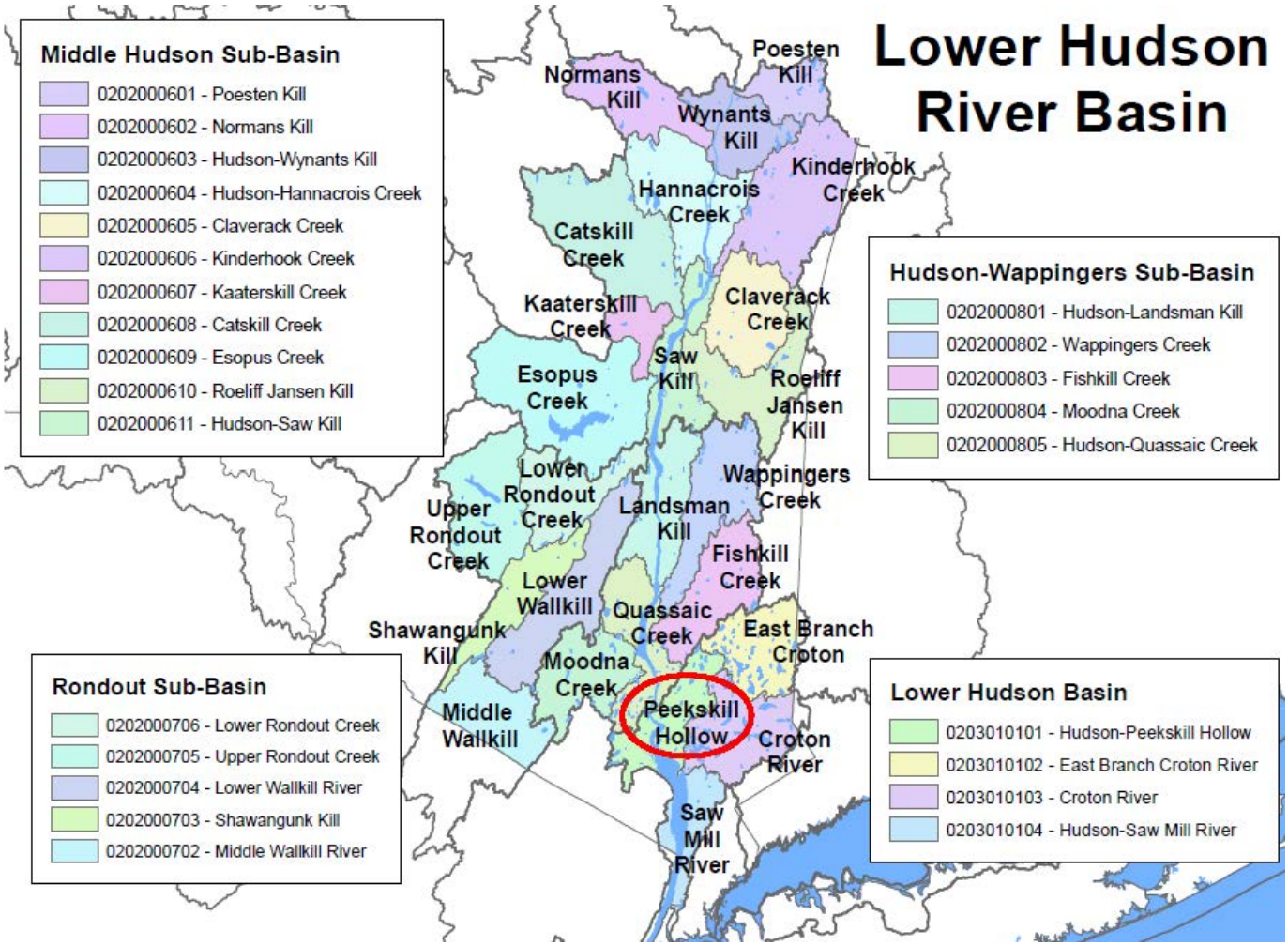

Peekskill Hollow Creek-Hudson River
(0203010101)

H- 43	Lake Tiorati Brook, Low, and minor tribs(1301-0062)	**NoKnownImpct**
H- 43	Lake Tiorati Brook, Upper, and tribs (1301-0119)	UnAssessed
H- 43- 1	Miniscenongo Creek and minor tribs (1301-0089)	**Need Verific**
H- 43- 1-10	South Br Minisceongo Creek and tribs (1301-0090)	UnAssessed
H- 43- 1-11	North Br Minisceongo Cr, Low, and tribs(1301-0120)	UnAssessed
H- 43- 1-11	North Br Minisceongo Cr, Upp, and tribs (1301-0121)	UnAssessed
H- 43- 1-11- 5	Upper Horse Chock Brook and tribs (1301-0122)	UnAssessed
H- 43- 1-11- 9-P150d	Breakneck Pond (1301-0123)	**Impaired Seg**
H- 43- 1-11-P150c	Lake Welch (1301-0124)	**NoKnownImpct**
H- 43- 1-P146	Garnerville Reservoir (1301-0125)	UnAssessed
H- 43- 4-P150i	Lake Tompkins (1301-0126)	**NoKnownImpct**
H- 43- 6-P150k	Upper Pound Swamp (1301-0127)	UnAssessed
H- 43-1- 11- 5-P150a,P150b,P150j	First, Second and Third Reservoirs (1301-0128)	UnAssessed
H- 43-P152	Lake Tiorati (1301-0129)	**NoKnownImpct**

H- 44	Furnace Brook and tribs (1301-0130)	**NoKnownImpct**
H- 44- 6-P156	Dickerson Pond (1301-0131)	UnAssessed
H- 44-P155	Furnace Brook Pond (1301-0132)	UnAssessed
H- 46 thru 59, EOH (selected)	Minor Tribs to East of Hudson (1301-0133)	UnAssessed
H- 48 thru 60, WOH (selected)	Minor Tribs to West of Hudson (1301-0134)	UnAssessed
H- 48a-P159a	Lake Boyce (1301-0135)	UnAssessed
H- 49a-P160	Lake Meahagh (1301-0053)	**Impaired Seg**
H- 51	Dickey Brook, Upper, and tribs (1301-0136)	UnAssessed
H- 51-P161e/P161g	Lounsbury, Peterson Ponds (1301-0137)	UnAssessed
H- 55	Peekskill Hollow Cr, Low, and mnr tribs (1301-0049)	**NoKnownImpct**
H- 55	Peekskill Hollow Cr, Middle, and tribs (1301-0138)	**NoKnownImpct**
H- 55	Peekskill Hollow Cr, Upper, and tribs (1301-0139)	**NoKnownImpct**
H- 55- 1-P165	Wallace Pond (1301-0140)	**Impaired Seg**
H- 55- 2	Canopus Creek and tribs (1301-0141)	**MinorImpacts**
H- 55- 2- 3-P166	Lake Celeste (1301-0142)	**Need Verific**
H- 55- 2- 4-P167	Indian Lake (1301-0143)	**NoKnownImpct**
H- 55- 2-P165b	Cortlandt Lake (1301-0144)	UnAssessed
H- 55- 2-P168a/P168b	Canopus Lake, Pelton Lake (1301-0145)	UnAssessed
H- 55- 6-P170a	Gregory Pond (1301-0146)	UnAssessed
H- 55- 7-P171	Lake Peekskill (1301-0147)	**MinorImpacts**
H- 55- 8-P175	Oscawana Lake (1301-0035)	**Impaired Seg**
H- 55- 8-P175..P176,P177	Mud Lake, Clear Lake (1301-0148)	UnAssessed
H- 55-11-P179	Lake Mohegan (1301-0149)	**Impaired Seg**
H- 55-12-P181	Barger Pond (1301-0091)	**Need Verific**
H- 55-12-P182	Oceola Lake (1301-0150)	UnAssessed
H- 55-16-P183	Bryant Pond (1301-0151)	UnAssessed
H- 55-17	Wiccopee Brook and tribs (1301-0152)	UnAssessed
H- 55-17-P183a	Wiccopee Reservoir (1301-0153)	UnAssessed
H- 55-17-P183a-	Tribs to Wiccopee Reservoir (1301-0154)	UnAssessed
H- 55-17-P183a..P183c	Stillwater Pond (1301-0155)	UnAssessed
H- 55-18-P183a	Roaring Brook Lake (1301-0037)	**Need Verific**
H- 55-20-P183d	Lake Ossi (1301-0156)	**MinorImpacts**
H- 55-P183e	Lake Tibet (1301-0034)	**MinorImpacts**
H- 56-P165e	Dickiebusch Lake (1301-0157)	UnAssessed
H- 59-P165f	Brocey Pond (1301-0158)	UnAssessed
H- 60-P184	Hessian Lake (1301-0159)	UnAssessed

Lake Tiorati Brook, Low, and minor tribs (1301-0062) NoKnownImpct

Waterbody Location Information

Revised: 03/26/2008

Water Index No:	H- 43			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/140	**Str Class:**	C(TS)*		Lower Hudson River
Waterbody Type:	River			**Reg/County:**	3/Rockland Co. (44)
Waterbody Size:	15.3 Miles			**Quad Map:**	HAVERSTRAW (Q-25-1)
Seg Description:	stream and select tribs, from mouth to Cedar Flats				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) assessment of Lake Tiorati Brook in Stony Point (at Route 210) was conducted in 2002. Sampling results indicated non-impacted water quality conditions. Algae was found to be abundant in the stream, but the macroinvertebrate fauna was diverse and well-balanced. Many clean-water mayflies, stoneflies and caddisflies were present. (DEC/DOW, BWAM/SBU, June 2005)

Other Concerns/Threats
Suburban residential and other development activities in the Lake Tiorati (Cedar Pond) Brook watershed may result in increased sediment loads and thermal changes affecting a natural trout fishery and aesthetics of the stream. The steep topography of the watershed increases the potential impact of ongoing and future planned development activity around Stony Point. There is also concern regarding control of stormwater runoff and changes in runoff patterns following construction. (DOW/Reg3, June 1999)

Segment Description
This segment includes the portion of the stream and selected/smaller tribs from the mouth (above tidal portion) to the Palasades Park boundary near Cedar Flats. The waters of this portion of the stream are Class C(TS). Tribs to this reach/segment are Class C with one trib (-4) designate Class A. Minisceongo Creek (-1) and Upper Lake Tiorati Brook are listed separately. Lower tidal portions of these tribs are included with the Hudson Main Stem.

Miniscenongo Creek and minor tribs (1301-0089) Need Verific

Waterbody Location Information

Revised: 06/26/2008

Water Index No:	H- 43- 1			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/140	**Str Class:**	C		Lower Hudson River
Waterbody Type:	River			**Reg/County:**	3/Rockland Co. (44)
Waterbody Size:	7.1 Miles			**Quad Map:**	HAVERSTRAW (Q-25-1)
Seg Description:	stream and select tribs, from mouth to Thiells				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
Recreation	Stressed	Possible
Aesthetics	Stressed	Possible

Type of Pollutant(s)

Known: - - -
Suspected: D.O./OXYGEN DEMAND, NUTRIENTS, PATHOGENS
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: URBAN/STORM RUNOFF
Possible: PRIVATE/COMM/INST

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: DOW/BWAM **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview
Aquatic life and recreational uses in this portion of Minisceongo Creek may experience impacts due to organic inputs from a nearby composing facility. However this facility is believed to have ceased operation since the most recent sampling and conditions in the stream should be verified. Suburban residential development activities may also influence waters quality.

Water Quality Sampling
Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Minisceongo Creek in Thiells, Rockland County, (at Mount Ivy Road) was conducted in 2003. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated slightly impacted water quality conditions. Water column sampling was limited to 4 samples during the year but revealed coliform to be a parameter of concern. One of the 4 pH measurements was found to be just below the criterion of 6.5. Bottom sediment sampling results revealed PAHs to be exceeding the Threshold Effects level - levels at which adverse impacts occasionally occur. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Based on the consensus of these established assessment methods, overall water quality at this site (has minor impacts,

but is -or- is fully) s supportive of the water's aquatic life support and recreational use. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Minisceongo Creek at this site was also conducted in 2002 during the Biological Screening effort in the basin. Sampling results at that time indicated moderately impacted water quality conditions. The fauna indicated impacts from organic wastes. Dissolved oxygen was only 3.2 mg/l and the bottom of the stream was covered with a brown flocculent algae. (DEC/DOW, BWAM/SBU, September 2005)

Sources Assessment

The source of the impacts to the stream was thought to be a composting facility about a mile above the sampling site on the South Branch of the creek. However the facility is believed to have ceased operation. Follow-up monitoring to verify conditions at the site is recommended. (DEC/DOW, Region 3, June 2008)

Segment Description

This segment includes the stream and all tribs from the mouth (above tidal portion) to the confluence of the South (-10) and North (-11) Branches near Thiells. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment are Class C. South and North Branches of Minisceongo Creek are listed separately. Lower tidal portions of these tribs are included with the Hudson Main Stem.

Breakneck Pond (1301-0123) Impaired Seg

Waterbody Location Information

Revised: 05/28/2008

Water Index No: H- 43- 1-11- 9-P150d
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: AA
Waterbody Type: Lake
Reg/County: 3/Rockland Co. (44)
Waterbody Size: 63.0 Acres
Quad Map: THIELLS (Q-24-2)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
FISH CONSUMPTION	Impaired	Known

Type of Pollutant(s)

Known: METALS (mercury)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: ATMOSPH. DEPOSITION
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/EPA
Resolution Potential: Medium
TMDL/303d Status: 4a (TMDL Complete, Being Implemented, Not Listed)

Further Details

Overview
Fish consumption use in Breakneck Pond is impaired by mercury contamination attributed to atmospheric deposition.

Fish Consumption Advisories
Fish consumption in Breakneck Pond is impaired due to a NYSDOH health advisory that recommends eating no more than one meal per month of larger (over 15 inches) largemouth bass because of elevated mercury levels. The source of mercury is considered to be atmospheric deposition, as there are not other apparent sources in the lake watershed. The advisory for this lake was first issued in 2005-06. (2006-07 NYSDOH Health Advisories and DEC/DFWMR, Habitat, December 2006).

Section 303(d) Listing
Breakneck Pond is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water/Atmospheric Deposition (Acid Rain). However, the mercury impairment was addressed in the Northeast Regional Mercury TMDL that was established in 2007. Therefore the listing for mercury for the lake are not included in the 2008 NYS Section 303(d) List of Impaired/TMDL Waters. (DEC/DOW, BWAM/WQAS, March 2008)

Lake Welch (1301-0124) NoKnownImpct

Waterbody Location Information

Revised: 07/30/2008

Water Index No: H- 43- 1-11-P150c
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: A
Waterbody Type: Lake
Reg/County: 3/Rockland Co. (44)
Waterbody Size: 217.3 Acres
Quad Map: THIELLS (Q-24-2)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Source (Drinking) Water Assessment
Lake Welch was assessed through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This assessment found a moderate susceptibility to contamination for this source of drinking water. Land cover and associated activities within the assessment area do not increase the potential for contamination. Non-sanitary wastewater discharges may contribute to contamination, but there are no noteworthy contamination threats associated with other discrete contaminant sources. This water supply reservoir provides water to Lake Welch Beach. (NYSDOH, Source Water Assessment Program, 2005)

Lake Tompkins (1301-0126) NoKnownImpct

Waterbody Location Information

Revised: 04/25/2008

Water Index No: H- 43- 4-P150i
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B
Waterbody Type: Lake
Reg/County: 3/Rockland Co. (44)
Waterbody Size: 10.5 Acres
Quad Map: PEEKSKILL (P-25-4)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

Tomkins Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) in 2001. An Interpretive Summary report of the findings of this sampling was published in 2002. These data indicate that the lake continues to be best characterized as mesotrophic, or moderately productive. Phosphorus levels in the lake are higher but typical of similar lakes. Corresponding transparency measurements are fairly low but water transparency is limited by shallow maximum lake depth. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5; occasionally low pH does not appear to result in ecological impacts. The lake water is slightly colored, but color does not limit water transparency. (DEC/DOW, BWAM/CSLAP, March 2002)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be favorable. The recreational suitability of the lake is described most frequently as "excellent." The lake itself is most often described as having "definite algal greenness." Assessments have noted that aquatic plants do not grow to the lake surface. (DEC/DOW, BWAM/CSLAP, March 2002)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life

support, but not as a water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess public bathing use is generally the responsibility of state and/or local health departments.

Lake Tiorati (1301-0129) NoKnownImpct

Waterbody Location Information

Revised: 07/25/2008

Water Index No: H- 43-P152
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: A
Waterbody Type: Lake
Reg/County: 3/Orange Co. (36)
Waterbody Size: 292.6 Acres
Quad Map: POPOLOPEN LAKE (P-24-3)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Source (Drinking) Water Assessment
Lake Tiorati was assessed through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. Based on the analysis of available information, this drinking water source does not have an elevated susceptibility to contamination. There are no regulated facilities within this watershed and the corresponding land cover does not pose any substantial risks to the source water quality. This water supply reservoir provides water to the Lake Tiorati Water System. (NYSDOH, Source Water Assessment Program, 2005)

Furnace Brook and tribs (1301-0130) NoKnownImpct

Waterbody Location Information

Revised: 03/26/2008

Water Index No: H- 44
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: C*
Waterbody Type: River
Reg/County: 3/Westchester Co. (60)
Waterbody Size: 15.4 Miles
Quad Map: HAVERSTRAW (Q-25-1)
Seg Description: entire stream and tribs

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) assessment of Furnace Brook near Crugers (at Furnace Dock Road) was conducted in 2002. Sampling results indicated slightly impacted water quality conditions, however this assessment is thought to be largely reflective of impoundment effects. The sample was collected just below Furnace Brook Lake. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, December 2004)

Segment Description
This segment includes the entire stream (freshwater section) and all tribs. The waters of the stream are Class C. Tribs to this reach/segment are primarily Class C, with some trib waters designated Class B. Lower tidal portions of these tribs are included with the Hudson Main Stem.

Lake Meahagh (1301-0053) Impaired Seg

Waterbody Location Information

Revised: 05/01/2008

Water Index No:	H- 49a-P160			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	C		Lower Hudson River
Waterbody Type:	Lake			**Reg/County:**	3/Westchester Co. (60)
Waterbody Size:	79.4 Acres			**Quad Map:**	PEEKSKILL (P-25-4)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus)
Suspected: - - -
Possible: D.O./Oxygen Demand, Pathogens

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION, URBAN/STORM RUNOFF
Suspected: ON-SITE/SEPTIC SYST
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/Reg3 **Resolution Potential:** Medium
TMDL/303d Status: 3a->1*

Further Details

Overview
Recreational uses in Lake Meahagh are considered to be impaired due to algal growth, nutrient and low water transparency. Elevated nutrient (phosphorus) loads attributed to nonpoint sources are the primary contributor to recreational and aesthetic impacts. Urban/storm runoff and on-site (septic) systems are thought to be sources of these pollutants.

Water Quality Sampling
Lake Meahagh has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1999 and continuing through 2001. An Interpretive Summary report of the findings of this sampling was published in 2002. These data indicate that the lake continues to be best characterized as hypereutrophic, or extremely productive, based on low water transparency, and high nutrient (primarily phosphorus) and algae levels. Phosphorus levels in the lake consistently exceed (and often significantly exceed) the state phosphorus guidance value indicating impacted/stressed recreational uses. Corresponding transparency measurements do not meet what is recommended for swimming beaches. Measurements of pH typically fall above the state water quality range of 6.5 to 8.5, but it is not known whether the high pH impacts aquatic life. The lake water is moderately colored, however color does not influence transparency. (DEC/DOW, BWAM/CSLAP, November 2002)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This most recent assessment (2005) indicates recreational suitability of the lake to be very unfavorable. The recreational suitability of the lake is described most frequently as "substantially" impacted for most recreational uses. The lake itself is most often described as having "definite algae greenness" or "high algae levels," an assessment that is actually more favorable than expected based on measured water quality characteristics. Assessments have noted that aquatic plants grow to the lake surface. (DEC/DOW, BWAM/CSLAP, November 2002)

Lake Uses

This lake waterbody is designated class C, suitable for general recreation and aquatic life support, but not as public water supply or public bathing beach. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program.

Section 303(d) Listing

Lake Meahagh is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. The lake is included on Part 3a of the List as a Water Requiring Verification of Impairment, however this updated assessment suggests that the suspected impairments to water quality and uses are verified and it is recommended that this listing for phosphorus in the lake be moved to Part 1 of the List, indicating a waterbody with an impairment requiring TMDL development. (DEC/DOW, BWAM/WQAS, May 2008)

Peekskill Hollow Cr, Low, and mnr tribs (1301-0049) NoKnownImpct

Waterbody Location Information

Revised: 03/26/2008

Water Index No:	H- 55			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	B		Lower Hudson River
Waterbody Type:	River			**Reg/County:**	3/Westchester Co. (60)
Waterbody Size:	1.0 Miles			**Quad Map:**	PEEKSKILL (P-25-4)
Seg Description:	stream and select tribs, from mouth to VanCortlandville				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) survey of Peekskill Hollow Creek at multiple sites between Van Cortlandtville near the mouth and Carmel was conducted in 2005. Sampling results indicated non-impacted water quality conditions at all sites sampled. One of the six sites sampled was located within this reach. (Peekskill Hollow Creek Biological Assessment, DEC/DOW, BWAM/SBU, December 2005)

Previous Assessment
There is concern the water supply, recreational and fishery uses in Peekskill Hollow Creek may be affected by residential development, urban runoff, lawn chemical/fertilizer usage and road salt/sanding activity in the watershed. Runoff from on-site septic systems located on steep slopes, in shallow soils and with insufficient setbacks may also influence water quality. Remaining agricultural activity (horse farms) may also contribute pollutants. (Westchester County WQCC, 1996)

Segment Description
This segment includes the freshwater portion of the stream and selected/smaller tribs from a point 0.8 miles above the mouth to unnamed pond (P169) in VanCortlandville. The waters of this portion of the stream are Class B. Tribs to this reach/segment, including Annsville Creek, are Class C,C(TS). Canopus Creek (-2) and Middle/Upper Peekskill Hollow Creek are listed separately. Lower tidal portions of these tribs are included with the Hudson Main Stem.

Peekskill Hollow Cr, Middle, and tribs (1301-0138) NoKnownImpct

Waterbody Location Information

Revised: 03/26/2008

Water Index No: H- 55 **Drain Basin:** Lower Hudson River
Hydro Unit Code: **Str Class:** A(TS)
Waterbody Type: River **Reg/County:** 3/Putnam Co. (40)
Waterbody Size: 6.7 Miles **Quad Map:** PEEKSKILL (P-25-4)
Seg Description: stream and tribs, fr VanCortlandville to Putnam Valley

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)
Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)
Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) survey of Peekskill Hollow Creek at multiple sites between Van Cortlandtville near the mouth and Carmel was conducted in 2005. Sampling results indicated non-impacted water quality conditions at all sites sampled. None of the six sites sampled was located within this reach, however sites were located just above and just below the reach that are considered to be reflective of condition in the reach. (Peekskill Hollow Creek Biological Assessment, DEC/DOW, BWAM/SBU, December 2005)

Source (Drinking) Water Assessment
Peekskill Hollow Creek was assessed through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This assessment found an elevated susceptibility to contamination for this source of drinking water. The amount of pasture in the assessment area, the moderate density of sanitary wastewater discharges results in elevated susceptibility for various contaminants. This assessment is typical of many water supplies and reflects the need to protect the resource. This water supply reservoir provides water to the City of Peekskill. (NYSDOH, Source Water Assessment Program, 2005)

Segment Description

This segment includes the portion of the stream and all tribs from unnamed pond (P169) in VanCortlandville to/including unnamed trib (-6) below Putnam Valley. The waters of this portion of the stream are Class A(TS). Tribs to this reach/segment are Class C. Lower/Upper Peekskill Hollow Creek are listed separately.

Peekskill Hollow Cr, Upper, and tribs (1301-0139) NoKnownImpct

Waterbody Location Information

Revised: 03/26/2008

Water Index No: H- 55
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: C(TS)
Waterbody Type: River
Reg/County: 3/Putnam Co. (40)
Waterbody Size: 62.1 Miles
Quad Map: PEEKSKILL (P-25-4)
Seg Description: stream and tribs, above Putnam Valley

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) survey of Peekskill Hollow Creek at multiple sites between Van Cortlandtville near the mouth and Carmel was conducted in 2005. Sampling results indicated non-impacted water quality conditions at all sites sampled. Five of the six sites sampled were located within this reach. (Peekskill Hollow Creek Biological Assessment, DEC/DOW, BWAM/SBU, December 2005)

Segment Description
This segment includes the portion of the stream and all tribs above unnamed trib (-6) below Putnam Valley. The waters of this portion of the stream are Class C(TS). Tribs to this reach/segment, including Oscawana Brook (-8), Mohegan Outlet (-11), Shrub Oak Brook (-12) and Roaring Brook (-18), are Class C. Wiccopee Brook (-17) and Lower/Upper Peekskill Hollow Creek are listed separately.

Wallace Pond (1301-0140) Impaired Seg

Waterbody Location Information

Revised: 04/30/2008

Water Index No: H- 55- 1-P165
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B
Waterbody Type: Lake
Reg/County: 3/Westchester Co. (60)
Waterbody Size: 18.5 Acres
Quad Map: PEEKSKILL (P-25-4)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus)
Suspected: - - -
Possible: D.O./Oxygen Demand

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION
Suspected: URBAN/STORM RUNOFF
Possible: Agriculture

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/Reg3
Resolution Potential: Medium
TMDL/303d Status: n/a->1*,4c*

Further Details

Overview
Recreational uses in Wallace Pond are considered to be impaired due to algal growth and low water transparency. Elevated nutrient (phosphorus) loads attributed to nonpoint sources are the primary contributor to these impairments.

Water Quality Sampling
Wallace Pond has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 2004 and continuing through the present. An Interpretive Summary report of the findings of this sampling was published in 2008. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive, based on low water transparency, and high nutrient (primarily phosphorus) and algae levels. Phosphorus levels in the lake consistently exceed (and often significantly exceed) the state phosphorus guidance value indicating impacted/stressed recreational uses. Corresponding transparency measurements rarely meet what is recommended for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. The lake water is moderately to highly colored, however color only influences transparency when algae levels are low. (DEC/DOW, BWAM/CSLAP, March 2008)
Recreational Assessment
Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This most recent assessment

indicates recreational suitability of the lake to be unfavorable. The recreational suitability of the lake is described most frequently as "slightly" to "substantially" impacted for most recreational uses. The lake itself is most often described as having "definite algae greenness," an assessment that is somewhat more favorable than expected based on measured water quality characteristics. Assessments have noted that aquatic plants rarely grows to the lake surface, but "excessive weed growth" was identified as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, March 2008)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, for general recreation and aquatic life support, but not as public water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Section 303(d) Listing

Wallace Pond not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. It is recommended that a listing for phosphorus be added to Part 1 of the List, indicating a waterbody with an impairment requiring TMDL development. (DEC/DOW, BWAM/WQAS, May 2008)

Canopus Creek and tribs (1301-0141) MinorImpacts

Waterbody Location Information

Revised: 06/03/2008

Water Index No: H- 55- 2
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B(T)
Waterbody Type: River
Reg/County: 3/Westchester Co. (60)
Waterbody Size: 29.2 Miles
Quad Map: PEEKSKILL (P-25-4)
Seg Description: entire stream and tribs

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Suspected

Type of Pollutant(s)

Known: - - -
Suspected: NUTRIENTS
Possible: Priority Organics (PAHs), Acid/Base (pH), Unknown Toxicity

Source(s) of Pollutant(s)

Known: - - -
Suspected: AGRICULTURE, Urban/Storm Runoff
Possible: Atmosph. Deposition

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 2 (Problem Verified, Cause Unknown)
Lead Agency/Office: ext/WQCC
Resolution Potential: Medium
TMDL/303d Status: n/a

Further Details

Overview
Aquatic life in Canopus Creek is thought to experience minor impacts due to nutrient enrichment, low pH and sediment toxicity. Some organics (PAHs were also found in sediments at slightly elevated levels.

Water Quality Sampling
NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Canopus Creek in Annsville, Westchester County, (at Sprout Brook Park) was conducted in 2003. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated non-impacted water quality conditions. The fauna was diverse and included many clean-water mayflies, stoneflies and hellgrammites. The fauna showed no effects of low pH which water column sampling revealed to be a parameters of concern. Bottom sediment sampling results revealed PAHs to be exceeding the Threshold Effects level - levels at which adverse impacts occasionally occur. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Based on the consensus of these established assessment methods, overall water quality at this site has minor impacts, but is supportive of the water's aquatic life support and recreational use. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Canopus Creek at this site was also conducted in 2002 during the Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The

fauna included many clean-water species but was dominated by filter-feeding caddisflies, suggesting nutrient enrichment and siltation. Poor sampling habitat of gravel and silt may have influenced the sampling results. (DEC/DOW, BWAM/SBU, September 2005)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class B,B(T). Tribs to this reach/segment, including Indian Lake Creek (-4), are Class C,C(TS).

Lake Celeste (1301-0142) Need Verific

Waterbody Location Information

Revised: 04/29/2008

Water Index No: H- 55- 2- 3-P166
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B
Waterbody Type: Lake
Reg/County: 3/Putnam Co. (40)
Waterbody Size: 7.0 Acres
Quad Map: PEEKSKILL (P-25-4)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Possible

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: ALGAL/WEED GROWTH
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: AGRICULTURE, URBAN/STORM RUNOFF
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: DOW/BWAM
Resolution Potential: Medium
TMDL/303d Status: n/a

Further Details

Overview

Recreational uses in Lake Celeste may experience minor impacts from nutrient loadings resulting in algal growth and reduced water clarity. The most recent assessments revealed some improvement in recreational use support. However these assessments are ten years old and conditions need to be verified.

Water Quality Sampling

Lake Celeste has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1993 and continuing through 1997. An Interpretive Summary report of the findings of this sampling was published in 1998. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive. Phosphorus levels in the lake frequently exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements frequently fail to meet what is the recommended minimum for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. (DEC/DOW, BWAM/CSLAP, January 1998)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be favorable since the lake was first evaluated and continuing through the most recent assessment. The recreational suitability of the lake is described most frequently as "could not be nicer" or

"excellent." The lake itself is most often described as "not quite crystal clear" and occasionally as having "definite algal greenness." These assessment are more favorable than expected given the measured water quality characteristics. Perception of recreational use in the lake has been steadily improving. Assessments have noted that aquatic plants do not typically grow to the lake surface and have not been cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, January 1998)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life support, but not as a water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Indian Lake (1301-0143) NoKnownImpct

Waterbody Location Information

Revised: 04/16/2008

Water Index No: H- 55- 2- 4-P167
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: A
Waterbody Type: Lake
Reg/County: 3/Putnam Co. (40)
Waterbody Size: 44.4 Acres
Quad Map: WEST POINT (P-25-1)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: - - -

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
Resolution Potential: n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

Indian Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1994 and most recently in 2006. An Interpretive Summary report of the findings of this sampling was published in 2007. These data indicate that the lake continues to be best characterized as mesotrophic, or moderately productive. Phosphorus levels in the lake rarely exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements meet what is recommended for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. The lake water is weakly colored, and color does not influence clarity of the lake. (DEC/DOW, BWAM/CSLAP, May 2007)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be very favorable since the lake was first evaluated and continuing through the most recent assessment. The recreational suitability of the lake is described most frequently as "could not be nicer" to "excellent." The lake itself is most often described as "not quite crystal clear," an assessment that is consistent with the perceived water quality conditions in the lake and its measured water quality characteristics. Assessments have noted that aquatic plants growth does not impact lake use. (DEC/DOW, BWAM/CSLAP, May 2007)

Lake Uses

This lake waterbody is designated class A, suitable for use as a water supply, public bathing beach, general recreation

and aquatic life support. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Lake Peekskill (1301-0147) MinorImpacts

Waterbody Location Information

Revised: 04/29/2008

Water Index No:	H- 55- 7-P171			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:		**Str Class:**	B		
Waterbody Type:	Lake			**Reg/County:**	3/Putnam Co. (40)
Waterbody Size:	58.5 Acres			**Quad Map:**	PEEKSKILL (P-25-4)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Suspected
Recreation	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: URBAN/STORM RUNOFF
Suspected: Agriculture
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview
Recreational uses in Lake Peekskill are known to experience minor impacts from nutrient loadings from nonpoint sources resulting in algal growth and eutrophic conditions.

Water Quality Sampling
Lake Peekskill has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1990 and continuing through 2007. An Interpretive Summary report of the findings of this sampling was published in 2008. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive. Phosphorus levels in the lake regularly exceed the state guidance values indicating impacted/stressed recreational uses. However corresponding transparency measurements typically meet what is the recommended minimum for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. (DEC/DOW, BWAM/CSLAP, March 2008)

Recreational Assessment
Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be unfavorable in recent years. The recreational suitability of the lake is described most frequently as "slightly" impacted for recreational use. The lake itself is most often described as having "definite

algal greenness." These assessment are consistent with measured water quality characteristics. Assessments have noted that aquatic plants do not typically grow to the lake surface and are not usually cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, March 2008)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life support, but not as a water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Oscawana Lake (1301-0035) Impaired Seg

Waterbody Location Information

Revised: 07/15/2008

Water Index No:	H- 55- 8-P175			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	A		Lower Hudson River
Waterbody Type:	Lake			**Reg/County:**	3/Putnam Co. (40)
Waterbody Size:	363.8 Acres			**Quad Map:**	OSCAWANA LAKE (P-25-2)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
PUBLIC BATHING	Impaired	Suspected
RECREATION	Impaired	Suspected

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (algal bloom, vegetation)
Suspected: NUTRIENTS (phosphorus)
Possible: D.O./Oxygen Demand, Pathogens, Silt/Sediment

Source(s) of Pollutant(s)

Known: URBAN/STORM RUNOFF
Suspected: On-Site/Septic Syst, Other Source (waterfowl)
Possible: Habitat Modification

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DOW/WQMS **Resolution Potential:** Medium
TMDL/303d Status: 1 (Individual Waterbody Impairment Requiring a TMDL)

Further Details

Overview
Recreational uses in Oscawana Lake are considered to be impaired by excessive aquatic weeds and algal growth. Nutrient loadings from urban storm runoff may be contributing to the vegetation and algal growth.

Water Quality Sampling
Oscawana Lake was sampled in 2005 and 2006 as part of an effort to develop a TMDL for the lake. The results of this sampling indicate that the lake is best characterized as mesotrophic, or moderately productive. However high phosphorus levels in the hypolimnion of the lake often exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements typically meet what is the recommended minimum for swimming beaches. (DEC/DOW, BWAM/CSLAP, October 2005)

Lake Uses
This lake waterbody is designated class A, suitable for use as a water supply, public bathing beach, general recreation and aquatic life support. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the

responsibility of state and/or local health departments.

Source Assessment

Lake Oscawana is surrounded by dense full and part-time residential development, and increasing development throughout the 2,900 acre watershed has also been noted. Stormwater runoff from developed areas have been identified as sources of pollutants to the lake. Failing and/or inadequate on-site septic systems serving lakeshore homes are also a concern. Other nutrient sources include internal loadings (resuspension) from lake sediments, lawn fertilizer, waterfowl (geese), and motorboat pollution.

Previous Assessment

A 1994 Citizens Statewide Lake Assessment Program (CSLAP) report indicated use impairments in the lake. More recent annual sampling of the lake and watershed tributaries is conducted by the Lake Oscawana Aquatic Plant Growth Control District. Their 1998 sampling results show signs of increased phosphorus loading from lake sediments and increasing anoxia in the water column. Lake Oscawana is the focus of a FOLA/DEC Watershed Management Planning Project. Consultants retained by the lake association will continue monitoring in 1999 and will prepare a State of the Lake report. (Lake Oscawana Advisory Committee, May 1999)

Section 303(d) Listing

Oscawana Lake is included on the NYS 2008 Section 303(d) List of Impaired Waters. The Lake is included on Part 1 of the List as a Waterbody Requiring TMDL Development (or other strategy to attain water quality standards). The lake is currently listed as being impaired by phosphorus. This waterbody was first listed on the 2002 Section 303(d) List. (DEC/DOW, BWAM/WQAS, June 2008)

Lake Mohegan (1301-0149) Impaired Seg

Waterbody Location Information

Revised: 04/30/2008

Water Index No: H- 55-11-P179
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B
Waterbody Type: Lake
Reg/County: 3/Westchester Co. (60)
Waterbody Size: 103.8 Acres
Quad Map: OSCAWANA LAKE (P-25-2)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION
Suspected: URBAN/STORM RUNOFF
Possible: Agriculture

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/Reg3
Resolution Potential: Medium
TMDL/303d Status: n/a->1*,4c*

Further Details

Overview
Recreational uses in Lake Mohegan are considered to be impaired due to algal growth and low water transparency. Elevated nutrient (phosphorus) loads attributed to nonpoint sources are the primary contributor to these impairments.

Water Quality Sampling
Lake Mohegan has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1998 and continuing through the present. An Interpretive Summary report of the findings of this sampling was published in 2008. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive, based on low water transparency, and high nutrient (primarily phosphorus) and algae levels. Phosphorus levels in the lake consistently exceed (and often significantly exceed) the state phosphorus guidance value indicating impacted/stressed recreational uses. Corresponding transparency measurements rarely meet what is recommended for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5; occasional high pH is not know to cause impacts to aquatic life. The lake water is weakly colored, and does not influence transparency. (DEC/DOW, BWAM/CSLAP, February 2008)
Recreational Assessment
Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This most recent assessment

(2005) indicates recreational suitability of the lake to be somewhat unfavorable. The recreational suitability of the lake is described most frequently as "slightly" impacted for most recreational uses. The lake itself is most often described as having "definite algae greenness," an assessment that is more favorable than expected based on measured water quality characteristics. Assessments have noted that aquatic plants regularly grow to the lake surface but do not greatly influence recreational use. (DEC/DOW, BWAM/CSLAP, February 2008)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, for general recreation and aquatic life support, but not as public water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Section 303(d) Listing

Lake Mohegan not is currently included on the NYS 2008 Section 303(d) List of Impaired Waters. However this updated assessment suggests it is appropriate to include this waterbody on the 2010 List. It is recommended that a listing for phosphorus be added to Part 1 of the List, indicating a waterbody with an impairment requiring TMDL development. (DEC/DOW, BWAM/WQAS, May 2008)

Barger Pond (1301-0091) Need Verific

Waterbody Location Information

Revised: 07/11/2008

Water Index No:	H- 55-12-P181			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	B		Lower Hudson River
Waterbody Type:	Lake			**Reg/County:**	3/Putnam Co. (40)
Waterbody Size:	30.0 Acres			**Quad Map:**	MOHEGAN LAKE (P-25-3)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Possible

Type of Pollutant(s)

Known: - - -
Suspected: ALGAL/WEED GROWTH
Possible: Nutrients (phosphorus)

Source(s) of Pollutant(s)

Known: - - -
Suspected: HABITAT MODIFICATION, Urban/Storm Runoff
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: DOW/BWAM **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview
Recreational uses in Barger Pond may experience minor impacts/threats due to excessive aquatic vegetation and/or algal growth. This assessment is based on previously reported concerns and conditions in the lake need to be verified.

Previous Assessment
Eutrophic conditions, algal blooms and excessive aquatic weed growth were previously reported in the lake. Resulting impacts on dissolved oxygen were also noted as a concern but needed to be evaluated. Conditions in the lake at the time may have been a result of natural conditions, however urban runoff from the surrounding area was thought to be a contributing factor influencing water quality. (Putnam County WQCC, June 1999)

Roaring Brook Lake (1301-0037) Need Verific

Waterbody Location Information

Revised: 07/11/2008

Water Index No:	H- 55-18-P183a			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	B		Lower Hudson River
Waterbody Type:	Lake			**Reg/County:**	3/Putnam Co. (40)
Waterbody Size:	114.9 Acres			**Quad Map:**	OSCAWANA LAKE (P-25-2)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Possible

Type of Pollutant(s)

Known: - - -
Suspected: ALGAL/WEED GROWTH (aquatic vegetation), NUTRIENTS
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: ON-SITE/SEPTIC SYST, Urban/Storm Runoff
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: DOW/BWAM **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview
Recreational uses in Roaring Brook Lake may experience minor impacts/threats due to excessive aquatic vegetation and/or algal growth. This assessment is based on previously reported concerns and conditions in the lake need to be verified.

Previous Assessment
Concerns that recreational uses and aesthetics in Roaring Brook Lake may be restricted by excessive aquatic vegetation were previously reported. A 1985 lake study by a consultant indicated suspected sources of nutrients feeding the lake include inadequate and/or failing on-site septic systems serving residences along the lake and lawn chemical/fertilizer usage. Urban runoff and the impact of proposed residential developments was also raised. (Putnam County WQCC, 1996)

Lake Ossi (1301-0156) MinorImpacts

Waterbody Location Information

Revised: 04/29/2008

Water Index No: H- 55-20-P183d
Drain Basin: Lower Hudson River
Hydro Unit Code:
Str Class: B
Waterbody Type: Lake
Reg/County: 3/Putnam Co. (40)
Waterbody Size: 10.4 Acres
Quad Map: OSCAWANA LAKE (P-25-2)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: URBAN/STORM RUNOFF
Possible: Agriculture

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 3 (Cause Identified, Source Unknown)
Lead Agency/Office: ext/WQCC
Resolution Potential: Medium
TMDL/303d Status: n/a

Further Details

Overview

Recreational uses in Lake Ossi are known to experience minor impacts from nutrient loadings from nonpoint sources resulting in algal growth and eutrophic conditions. The most recent assessment information is nearly ten years old and it is recommended that conditions be verified.

Water Quality Sampling

Lake Ossi has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1996 and continuing through 1999. An Interpretive Summary report of the findings of this sampling was published in 2000. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive. Phosphorus levels in the lake often exceed the state guidance values indicating impacted/stressed recreational uses. Corresponding transparency measurements often fail to meet what is the recommended minimum for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. Lake color may be high enough to influence water transparency. (DEC/DOW, BWAM/CSLAP, January 1999)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be unfavorable. The recreational suitability of the lake is described most frequently as "slightly" of "substantially" impacted for recreational use. The lake itself is most often described as

having "definite algal greenness" or as having "high algae levels." These assessment are consistent with measured water quality characteristics. Assessments have noted that aquatic plants typically grow to the lake surface. (DEC/DOW, BWAM/CSLAP, January 1999)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation and aquatic life support, but not as a water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Lake Tibet (1301-0034) MinorImpacts

Waterbody Location Information

Revised: 06/02/2008

Water Index No:	H- 55-P183e			**Drain Basin:**	Lower Hudson River
Hydro Unit Code:	02030101/020	**Str Class:**	B		Lower Hudson River
Waterbody Type:	Lake			**Reg/County:**	3/Putnam Co. (40)
Waterbody Size:	37.4 Acres			**Quad Map:**	OSCAWANA LAKE (P-25-2)
Seg Description:	entire lake				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Public Bathing	Stressed	Known
Recreation	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (aquatic vegetation)
Suspected: Problem Species
Possible: Nutrients

Source(s) of Pollutant(s)

Known: - - -
Suspected: HABITAT MODIFICATION, On-Site/Septic Syst
Possible: - - -

Resolution/Management Information

Issue Resolvability: 3 (Strategy Being Implemented)
Verification Status: 5 (Management Strategy has been Developed)
Lead Agency/Office: ext/WQCC **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview
Public bathing and other recreational uses in Lake Tibet are known to experience impacts due to aquatic weed growth. Various chemical and mechanical weed control measures have been undertaken over the years to manage aquatic weed impacts. Due to the lack of any current lake chemistry data, water quality monitoring of the lake is recommended.

Previous Assessment
Heavy aquatic weed growth that restricts recreational uses consistently occurs during the summer months. Chemical (copper sulfate) treatment was used in the 1960s and 1970s. Beginning in the early 1980s mechanical weed harvesting has been employed with varying levels of success. Diquat applications were used in the late 1980s. Lake water quality studies were performed in 1989 (Western Connecticut State University, 1989) and in 1991 (Aquatic Control Technology Inc for the Lake Tibet Association, 1991). The Lake Tibet Property Owners Association currently contracts (with Allied-Biological Inc.) to implement a herbicide program and mechanical measures to maintain the lake. Hydro-raking is being considered in addition to the chemical and mechanical control efforts already in place. (Lake Tibet Property Owners Association, May 2008)

Previous Assessment
This very shallow lake was once a wetland. Homes along the shore of the lake were reported to be served by

inadequate and/or failing on-site septic systems. (Putnam County WQCC, 1996)